

CLAIMS

1. ~~A disc player comprising:~~

a roller for transporting a disc;

a disc guide, provided opposite to said roller along a disc transportation direction, for guiding the disc being transported;

a disc selecting lever provided at each end along the direction perpendicular to the disc transportation direction, of which center portion along the disc transportation direction is oscillatably journaled about an axis along the direction perpendicular to the disc transportation direction;

projecting portions provided at each both ends of said disc selecting lever along the disc transportation direction so as to project toward the disc side, both of which the projecting portions abut on the disc to push down the disc when a large-diameter disc is transported, whereas both or at least one of which projecting portions does not abut on the disc when a small-diameter disc is transported;

a large-diameter latch member for receiving and latching the large-diameter disc having reached a terminal end of transportation after being pushed down by said projecting portions; and

a small-diameter latch member for receiving and latching the small-diameter disc having reached a terminal end of transportation.

2. The disc player according to claim 1 further comprising:
a turn table on which the disc transported by said roller
is placed, for allowing rotating operation of the disc;

a clamber arm journaled so as to be capable of
oscillating;

a clamber rotatably supported on the oscillating distal
end side of said clamber arm, which clamber separates from said
turn table at the time of transportation of the disc in
accordance with oscillating operation of said clamber arm,
whereas presses the disc against said turn table when the disc
is placed on said turn table; and

an opening provided in said clamber arm, through which
a front end portion in the transportation direction of the disc
being transported penetrates and projects therefrom.

3. The disc player according to claim 2, wherein the end edge
located on the disc guide side of said opening has a curved shape
which abuts only both ends of the disc.

4. The disc player according to claim 1 further comprising:
a turn table on which the disc transported by said roller
is placed, for allowing rotating operation of the disc;

a clamber arm journaled so as to be capable of
oscillating;

a clamper holding plate provided on the oscillating distal end side of said clamper arm;

a clamper rotatably supported on said clamper arm via said clamper holding plate, which clamper separates from said turn table during at the time of the disc in accordance with oscillating operation of said clamper arm, whereas presses the disc against the turn table when the disc is placed on said turn table;

a restricting member for positioning and restricting one end portion of said clamper having separated from said turn table; and

a supporting portion provided in said clamper arm, for positioning and supporting the other end portion of said clamper having separated from said turn table,

said clamper holding plate being provided with an energizing portion for energizing said clamper toward the direction of separating from said clamper arm.

5. The disc player according to claim 4, wherein said clamper is supported by said clamper arm in the condition that more or less movement along the oscillating direction of the clamper arm is allowed.

6. The disc player according to claim 1 further comprising:
a turn table on which the disc transported by said roller

is placed, for allowing rotating operation of the disc;

a clamper arm journaled so as to capable of oscillating;

a clamper holding plate provided on the oscillating distal end side of said clamper arm; and

a clamper rotatably supported on said clamper arm via said clamper holding plate, which clamper separates from said turn table during transportation of the disc in accordance with oscillating operation of said clamper arm, whereas presses the disc against said turn table when the disc is placed on said turn table;

said turn table being provided with a disc supporting portion for supporting the disc; a projecting portion provided inwardly in the radial direction from said disc supporting portion, to be fitted into a center hole of the disc; and a clamper engagement portion provided inwardly in the radial direction from said projecting portion, performing advancing/retracting operation along the axial direction of said turn table,

said clamper being provided with a turn table engagement portion to be engaged with said clamper engagement portion having performed advancing operation.

7. The disc player according to claim 6, wherein said clamper engagement portion has:

an operation lever with one end portion projecting above

said disc supporting portion, and the other end portion performing advancing/retracting operation with respect to said disc supporting portion in accordance with presence/absence of the pushing operation of the disc with respect to said one end portion ;

a main body member connected to the other end portion of said operation lever; and

energizing means for energizing the other end portion of said operation lever toward the direction separating from said disc supporting portion.